PATENT ABSTRACTS OF JAPAN

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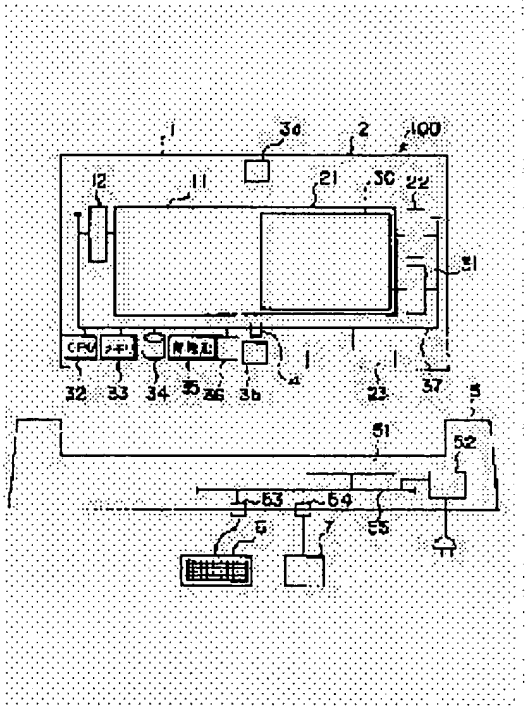
(54) INFORMATION PROCESSOR

(57)Abstract:

PROBLEM TO BE SOLVED: To provide an information processor where a portable main body is miniaturized much more and the main body can be operated as a desk type.

SOLUTION: The processor is provided with the main body 100 constituted of display panels 1 and 2 connected so that they can be fold, a holding device 5 holding the main body so that it can be removed, an input device 6 and connectors 23 and 51 connecting the main body 100 and the holding device 5. Liquid crystal display screens 11 and 21 are provided for display panels 1 and 2. A touch screen 30 is fitted on the surface of the liquid crystal display screen 21. When a judgment circuit 36 judges that the main body 100 is held by the holding device 5, the display control circuit 12 and 22 display input data inputted by the input device 6 on the liquid crystal display screens 21 and 22. When the judgment circuit 36 judges that the main body 100 is not held by the holding device 5, input data inputted by the touch screen 30 is displayed on the liquid crystal display screens 21 and 22.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

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[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

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* NOTICES *

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CLAIMS

[Claim(s)]
[Claim 1] The supporting structure which holds the body which consists of two or more display panels connected possible [folding], and said body in the condition that said two or more display panels were developed, removable, So that the input device electrically connected to said supporting structure and the input data inputted with said input device may be transmitted to said body It has the connector which connects electrically said body held at said supporting structure, and said supporting structure. A display is prepared in each of two or more of said display panels, and the input section is united with at least one of these displays. Said body A judgment means to judge whether said body is held at said supporting structure, When said judgment means judges with said body being held at said supporting structure The input data inputted with said input device is displayed on at least one of said two or more displays. The information processor which carries out the description of having a display-control means to display the input data inputted in said input section on at least one of said two or more displays when said judgment means judges with said body not being held at said supporting structure.
[Claim 2] Said judgment means is an information processor characterized by judging with said body not being held at said supporting structure when it judges with said body being held at said supporting structure when said connector has connected said body and said supporting structure electrically in claim 1 and said connector has not connected said body and said supporting structure electrically.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]
[0001]
[Field of the Invention] This invention relates to the information processor with which either a pocket form or a desk type can operate.
[0002]
[Description of the Prior Art] As an information processor which a common user uses, the desk type personal computer and the pocket form personal computer have spread widely. As for a desk type personal computer, it is common to have various peripheral devices, such as a printer and external storage, by considering CRT, a body, a keyboard, etc. as a basic configuration. Moreover, recently, the mouse which is one of the input units is also becoming indispensable with iconification of a menu screen. Such a desk type personal computer is put on the desk of an office etc., and is used on various business. On the other hand, as for a pocket form personal computer, what connected the display panel and the body possible [folding] is common, and it may be called a note type and a book mold from such a gestalt. Built-in storage, such as a hard disk besides the keyboard of the almost same magnitude as a display panel, etc. is formed in the body. Moreover, a thing equipped with the display (for example, liquid crystal display screen where the touch screen was prepared in the front face) with which the input section was united is also in a pocket form personal computer. A user can input information by choosing the icon (pictorial symbol) displayed into the liquid crystal display screen with a predetermined input pen. Foldable equipment is indicated by JP,6-83779,A, JP,5-61423,A, and JP,6-310873,A.
[0003] It excels in portability and the above pocket form personal computers can also be contained in a bag etc. Moreover, about the above-mentioned desk type personal computer, since allowances can be given to size about a display screen or a keyboard, it excels in operability. Therefore, a user uses a desk type personal computer in an office, and outside the office, as it said that a pocket form personal computer was used, he uses these computers properly.
[0004]
[Problem(s) to be Solved by the Invention] However, for a user, it is complicated to prepare a desk type and a pocket form personal computer, respectively, and it also requires cost.
[0005] Invention in consideration of such a trouble is indicated by JP,5-313786,A. This information processor can be used also as a usual word processor and a usual personal computer using a keyboard, and a pen input is not only possible, but it is excellent in portability and operability.
[0006] However, in the information processor which can be carried, it is a usual state that a user expects the miniaturization beyond it that the size will become small [how], and it is not an exception about the information processor excellent in portability which was mentioned above, and operability, either.
[0007] In view of such a thing, a body with portability is miniaturized further and the purpose of this invention has this body in offering the information processor which can operate also as a desk type.
[0008]
[Means for Solving the Problem] The body which consists of two or more display panels connected possible [folding] if this invention for attaining the above-mentioned purpose is caused like 1 voice, So

that the supporting structure which holds said body in the condition that said two or more display panels were developed, removable, the input device electrically connected to said supporting structure, and the input data inputted with said input device may be transmitted to said body It has the connector which connects electrically said body held at said supporting structure, and said supporting structure. A display is prepared in each of two or more of said display panels, and the input section is united with at least one of these displays. Said body A judgment means to judge whether said body is held at said supporting structure, When said judgment means judges with said body being held at said supporting structure The input data inputted with said input device is displayed on at least one of said two or more displays. When said judgment means judges with said body not being held at said supporting structure, the information processor which carries out the description of having a display-control means to display the input data inputted in said input section on at least one of said two or more displays is offered.
[0009] Moreover, when it judges with said body being held at said supporting structure when said connector has connected said body and said supporting structure electrically and said connector has not connected said body and said supporting structure electrically, said body may judge that it is not held by said judgment means at said supporting structure.
[0010]
[Embodiment of the Invention] Hereafter, it explains, referring to a drawing about 1 operation gestalt of this invention.
[0011] As shown in drawing 1 , the information processor of this operation gestalt is equipped with the connectors 23 and 51 which connect electrically the body 100 which consists of the display panel (display panels 1 and 2) of two sheets connected possible [folding], the supporting structure 5 which holds a body 100 removable, the input device (keyboard) 6 electrically connected to the supporting structure 5, and the body 100 held at the supporting structure 5 and the supporting structure 5. You may have a mouse further as an input unit.
[0012] It connects mechanically on Hinges 3a and 3b, and the include angle of the closing motion direction can set now a display panel 1 and a display panel 2 as arbitration. These display panels are electrically connected by the foldable cable 4. The display-control circuit 12 where a display panel 1 carries out drive control of the liquid crystal display screen 11 and this, The central processing unit 32 which performs control and required data processing of each part of a body (CPU), The memory 33 which memorizes the data obtained by the program performed by CPU32, or data processing, It has the storage 34 realized with a hard disk etc., the battery 35 which supplies power to each part of a body when a body 100 is separated from the supporting structure 5 (when a body 100 operates as equipment of a pocket form), and the judgment circuit 36 mentioned later. A display panel 2 is the liquid crystal display screen 21, the display-control circuit 22 which carries out drive control of this, and the input section (with this operation gestalt) united with the liquid crystal display screen 21. It has the pressure-sensitive type touch screen 30 of the transparence arranged in piles on the front face of the liquid crystal display screen 21, the input-control circuit 31 which controls actuation of a touch screen 30, the display-control circuit 22 and the input-control circuit 31, and the signal line 37 linked to the above-mentioned connector 23. The signal line 37 is extended and arranged also in a display-panel 1 side through the foldable cable 4, and each circuit by the side of a display panel 1 has connected it to this. In this operation carrying, the layout of a keyboard is displayed on the liquid crystal display screen 21. The input tooth space for inputting a handwriting alphabetic character may be provided further. The input-control circuit 31 will transmit the coordinate data to CPU32, if the pointing of a certain location on a touch screen 30 is carried out with the pen for an input. CPU32 analyzes this coordinate data and gives directions to the display-control circuit 12 and 22 grades. By this, the contents of a display of the liquid crystal display screen 21 under a touch screen 30 are updated, and it is urged to the next actuation, and it can come, simultaneously a predetermined alphabetic character, a notation, a graphic form, etc. are displayed on the liquid crystal display screen 11. Memory 33 memorizes about the font data about an alphabetic character, a notation, etc. These font data are used also when receiving an input using body 100 keyboard 6. In addition, it may replace with the above-mentioned touch screen 30, and the tablet by the electric resistance type, the electrostatic-capacity type, electromagnetic guidance, etc. may be used.

[0013] The supporting structure 5 is equipped with the above-mentioned connector 51, the power circuit 52 used in case a body 100 is held at the supporting structure 5 and it operates as equipment of a desk type, the connector 53 to which a keyboard 6 is connected, the connector 54 to which the external storage 7, such as CD-ROM and a floppy disk, is connected, and the signal line 55 to which these connectors and power circuits 52 were connected. The cable of the plug inserted in a plug socket has connected with a power circuit 52.
[0014] The judgment circuit 36 mentioned above is a circuit which judges whether the body 100 is held at the supporting structure 5. When the body 100 is held at the supporting structure 5, a connector 23 and a connector 51 are connected mutually. Working [the] and a predetermined signal are outputted about the power circuit 52 of the supporting structure 5. This output signal is sent to a signal line 37 through a signal line 55 and connectors 51 and 23. It judges with the judgment circuit 36 having connectors 23 and 51 in a connection condition, if this output signal is detected and the electrical potential difference of this output signal becomes beyond a predetermined value using the detector established in the interior of own, and directions are given to CPU32 so that a body 100 may be operated as a desk type. On the other hand, when the electrical potential difference of an output signal is smaller than a predetermined value, it judges with connectors 23 and 51 being in a connectionless condition, and directions are given to CPU32 so that a body 100 may be operated as a pocket form.
[0015] In addition, the judgment of the connection condition of connectors 23 and 51 is not necessarily limited to such a configuration. For example, the signalling channel of the shape of a loop formation which goes via a connector 51 by making the judgment circuit 36 into an endpoint may be constructed. Moreover, it replaces with the judgment circuit 36, a manual switch is formed, and you may enable it to specify the mode of operation of CPU by operating this switch.
[0016] In this operation gestalt which has the above configuration, the body 100 removed from the supporting structure 5 is used, as shown in drawing 2 . In this case, CPU32 operates a body 100 as equipment of a pocket form with directions of the judgment circuit 36.
[0017] In this drawing, display panels 1 and 2 are developed at the include angle of about 100 degrees. For example, if the pointing of which key area of the keyboard displayed on the liquid crystal display screen 21 is carried out with the pen for an input, the coordinate data will be sent to CPU32. Based on the coordinate data, CPU32 gives directions to the display-control circuits 12 and 22, and updates the contents of a display of the liquid crystal display screens 11 and 21. A graphic form as shown in drawing 6 is also displayed on the liquid crystal display screen 11. In addition, when a body 100 operates as equipment of a pocket form, power will be supplied to each circuit of a body 100 from a battery 35. What is necessary is just to fold up display panels 1 and 2, in carrying a body 100. Thereby, the size of a body 100 becomes half.
[0018] Moreover, the body 100 held at the supporting structure 5 is used as equipment of a desk type, as shown in drawing 3 and drawing 4 . As shown in drawing 4 , there are no display panels 1 and 2 in fitting slot 5a formed in the center section of the supporting structure 5 with backlash ******, and they are inserted in it.
[0019] In drawing 3 , it is developed at the include angle of about 180 degrees, and display panels 1 and 2 are in a connection condition about connectors 23 and 51. In this case, CPU32 operates a body 100 as a desk type with directions of the judgment circuit 36. Specifically, the liquid crystal display screens 11 and 21 are dealt with as the one display screen. For example, if a key stroke is performed in a keyboard 6, the input data is transmitted to CPU32 through a signal line 55, connectors 51 and 23, and a signal line 37, after that, will be changed into a predetermined alphabetic character, a graphic form, and a notation, and will be displayed on the liquid crystal display screens 11 and 21.
[0020] For example, when inputting many alphabetic characters and editing a text, the alphabetic character is laterally written over both liquid crystal display screens 11 and 21 (when using this information processor as a word processor). In this case, the liquid crystal display screens 11 and 21 will be equivalent to 1 page of a note. Of course, you may have a display mode with which the liquid crystal display screens 11 and 21 are equivalent to 2 pages of a note. In this case, when an alphabetic character is buried to the lowest line of the liquid crystal display screen 11, the alphabetic character will be

laterally written from the top line of the liquid crystal display screen 21.
[0021] Moreover, the image data read from CD-ROM etc. can also be displayed on the liquid crystal display screens 11 and 21. In drawing 7 , the Japanese map which is a spread is displayed on the liquid crystal display screens 11 and 21.
[0022] In addition, when a body 100 is used as equipment of a pocket form, power is supplied to each circuit of a body 100 and the supporting structure 5 from a power circuit 52. Under the present circumstances, charge of the battery 35 of a body 100 is also performed.
[0023] As mentioned above, although the fundamental usage of the information processor of this operation gestalt was explained, a body 100 may be used with a gestalt as shown in drawing 5 .
[0024] In drawing 5 , display panels 1 and 2 are developed at the include angle of about 330 degrees, and display panels 1 and 2 have turned to the opposite direction. If it does in this way, the operator who operates a touch panel 30 can show others the display result comfortably. For example, a salesman can input the information about explanation of goods by operating a touch panel 30, can display this on the liquid crystal display screen 11, and can carry out counter selling with a shopper.
[0025] In addition, although the operation gestalt explained above is an example equipped with two display panels, for example, it may make three or more display panels connect.
[0026]
[Effect of the Invention] According to the information processor concerning this invention, since the body with which either a pocket form or a desk type can operate is small foldable, carrying of this body becomes easy.

[Translation done.]

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TECHNICAL FIELD

[Field of the Invention] This invention relates to the information processor with which either a pocket form or a desk type can operate.

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MEANS

[Means for Solving the Problem] The body which consists of two or more display panels connected possible [folding] if this invention for attaining the above-mentioned purpose is caused like 1 voice, So that the supporting structure which holds said body in the condition that said two or more display panels were developed, removable, the input device electrically connected to said supporting structure, and the input data inputted with said input device may be transmitted to said body It has the connector which connects electrically said body held at said supporting structure, and said supporting structure. A display is prepared in each of two or more of said display panels, and the input section is united with at least one of these displays. Said body A judgment means to judge whether said body is held at said supporting structure, When said judgment means judges with said body being held at said supporting structure The input data inputted with said input device is displayed on at least one of said two or more displays. When said judgment means judges with said body not being held at said supporting structure, the information processor which carries out the description of having a display-control means to display the input data inputted in said input section on at least one of said two or more displays is offered.
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[0018] Moreover, the body 100 held at the supporting structure 5 is used as equipment of a desk type, as shown in drawing 3 and drawing 4 . As shown in drawing 4 , there are no display panels 1 and 2 in

fitting slot 5a formed in the center section of the supporting structure 5 with backlash ******, and they are inserted in it.

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[0023] As mentioned above, although the fundamental usage of the information processor of this operation gestalt was explained, a body 100 may be used with a gestalt as shown in drawing 5 .

[0024] In drawing 5 , display panels 1 and 2 are developed at the include angle of about 330 degrees, and display panels 1 and 2 have turned to the opposite direction. If it does in this way, the operator who operates a touch panel 30 can show others the display result comfortably. For example, a salesman can input the information about explanation of goods by operating a touch panel 30, can display this on the liquid crystal display screen 11, and can carry out counter selling with a shopper.

[0025] In addition, although the operation gestalt explained above is an example equipped with two display panels, for example, it may make three or more display panels connect.

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]
[Drawing 1] The block diagram showing 1 operation gestalt of this invention.
[Drawing 2] The block diagram showing the expansion condition (the 1) of the body of drawing 1 .
[Drawing 3] A block diagram when the body of drawing 1 is held at the supporting structure.
[Drawing 4] The enlarged drawing of the body of drawing 1 , and the fitting section of the supporting structure.
[Drawing 5] The block diagram showing the expansion condition (the 2) of the body of drawing 1 .
[Drawing 6] The external view at the time of displaying one graphic form using two liquid crystal display screens with which the body of drawing 1 is equipped.
[Drawing 7] The external view at the time of displaying one graphic form using one side of two liquid crystal display screens with which the body of drawing 1 is equipped.
[Description of Notations]
1 Two -- Display panel 3a, 3b -- Hinge 4 -- A foldable cable, 5 -- Supporting structure 6 -- Input unit 7 -- External storage 11 21 -- Liquid crystal display screen, 12 22 -- Display-control circuit 23, 51, 53, 54 -- Connector, 30 -- Input section 31 -- Input-control circuit 32 -- Central processing unit 33 -- Memory 34 -- Storage 35 -- Battery 36 -- Judgment circuit 37 55 -- Signal line 52 -- Power circuit

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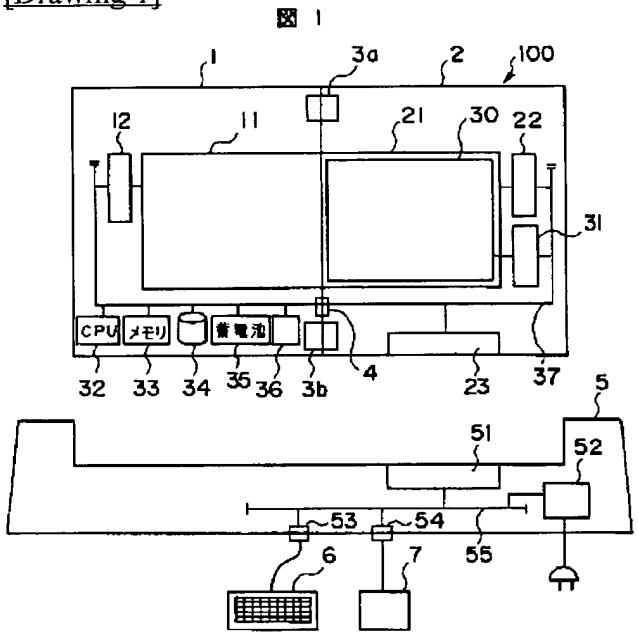
DRAWINGS

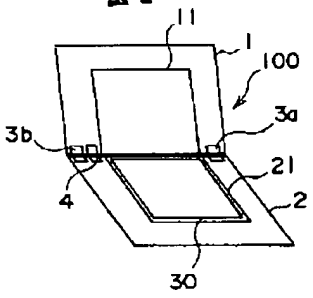
[Drawing 1]

図 1



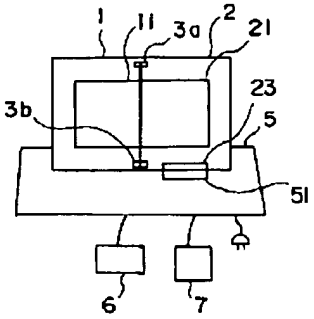
[Drawing 2]

図 2



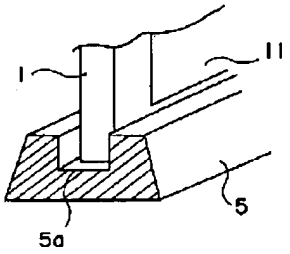
[Drawing 3]

図 3



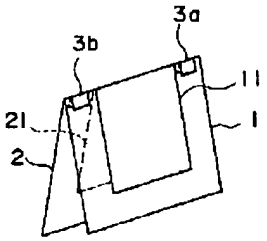
[Drawing 4]

図 4



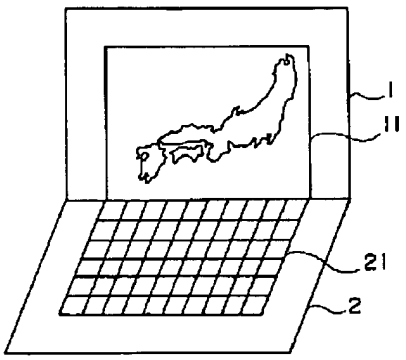
[Drawing 5]

図 5



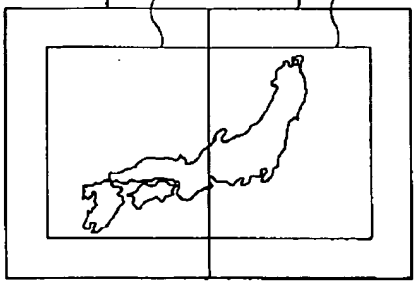
[Drawing 6]

図 6



[Drawing 7]

図 7



[Translation done.]